(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 4 August 2005 (04.08.2005)

PCT

(10) International Publication Number WO 2005/071388 A1

(51) International Patent Classification⁷: B01L 3/00, B65D 81/32, C12M 1/30

G01N 1/02,

(21) International Application Number:

PCT/EP2005/000484

(22) International Filing Date: 19 January 2005 (19.01.2005)

(25) Filing Language:

Englis

(26) Publication Language:

English

(30) Priority Data: 0401288.6

21 January 2004 (21.01.2004) GE

(71) Applicant (for all designated States except US): ORION DIAGNOSTICA OY [FI/FI]; Koivu-Mankkaan tie 6B, FIN-02200 Espoo (FI).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ROSMAN, Esa

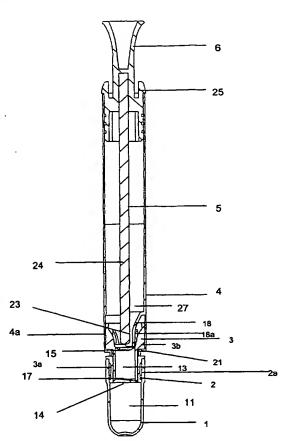
[FI/FI]; Kupittaankatu 112, As 8, FIN-20810 Turku (FI). KYLMÄ, Anna, Kaisa [FI/FI]; Sjövikintie 24, FIN-02440 Luoma (FI). HÄIVÄ, Veli-Mies [FI/FI]; Hilapellontie 12D, FIN-02680 Espoo (FI). GRANBERG, Christer [FI/FI]; Bronrinne 1, As 23, Fin-02400 Kirkkonummi (FI).

(74) Agent: MERRYWEATHER, Colin, Henry; J.A. Kemp & Co., 14 South Square, Gray's Inn, London WC1R 5JJ (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: SAMPLING AND ASSAY DEVICE



(57) Abstract: A sampling and assay device comprises at least three chamber portions (1, 3, 4) connected together in a row. Each chamber portion (1, 3, 4) defines a chamber (11, 13, 27) and adjacent chambers (11, 13, 27) along the row are separated by respective partitions (14, 15). One end chamber (4) is capable of receiving a sample either on a swab or as a liquid. The other chambers (11, 13) contain reagent for performing the assay. Adjacent chamber portions (1, 3, 4) along the row are relatively movable towards each another. In respect of each pair of adjacent chamber portions (1, 3), one of the adjacent chamber portions (1) has the respective partition (14) fixed thereto and the other of the adjacent chamber portions (3) has a rupture member (17) arranged to rupture the respective partition (14) on relative movement of the adjacent chamber portions (1, 3). As a result, the sampling and assay device is capable of rupturing each partition (14, 15) simultaneously on relative movement of the chamber portions (1, 4) at the ends of the row towards each other. Also, each pair of adjacent chamber portions (1, 3) have respective connection portions (2a; 3a) mated together, the connection portions (2a, 3a) being designed to allow further chamber portions identical to an intermediate chamber portion to be connected into said row.

WO 2005/071388 A1

- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- with international search report